Roll No. ....   Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem–2)
SYSTEM ANALYSIS AND DESIGN
Subject Code : BC-202
Paper ID : [B0206]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. SECTION-A is COMPULSORY.
2. Attempt any FOUR questions from SECTION-B.

SECTION-A   (10 × 2 = 20 Marks)

1. (a) Explain the difference between system and sub system. Illustrate with

   (b) What is technical and operational feasibility? Explain.

   (c) What is decision tree? Illustrate with example.

   (d) What are various system design principles?

   (e) How testing is different from debugging?

   (f) What is master and transaction file? Explain.

   (g) Explain the role of structured English in system development.

   (h) What is stress testing?

   (j) How open system is different from closed system?

ECTION-B   (4 × 10 = 40 Marks)

   2. Define system? What are its different types? Explain various types of
      system with their relative merits and demerits.

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3. What is data flow diagram? How it is different from flow chart? Draw and explain zero level and first level DFD for university examination system.

4. What are various data gathering techniques? Explain their relative merits and demerits.

5. Why software maintenance is required? How it is different from hardware maintenance? Explain different types of software maintenance.

6. What is need of system testing? Discuss various principles of system testing. Also explain how white box testing is different from black box testing?

7. What is the significance of system implementation in SDLC? Discuss various techniques for implementing a system with their relative merits and demerits.